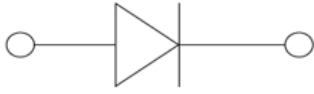


Small Signal Schottky Diode



SOD323

Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_{RRM} 40V
- I_{FAV} 0.03A
- For Surface Mount Application
- Part no. with suffix "Q" means AEC-Q101 qualified

Mechanical Data

- **Case:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Peak Repetitive Reverse Voltage	V_{RRM}	V		40
Average Forward Current	I_{FAV}	A		0.03
Peak Forward Surge Current	I_{FSM}	A	Square wave $t_p < 10ms$	0.2
Power Dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient	R_{thJA}	°C/W		500
Maximum Junction Temperature	T_j	°C		-55 to +125
Storage Temperature Range	T_{stg}	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN	MAX
Reverse Breakdown Voltage	$V_{(BR)R}$	V	$I_R = 0.1mA$	40	
Forward Voltage	V_F	V	$I_F = 1.0mA$	-	0.37
Reverse Leakage Current	I_R	uA	$V_R = 30V$	-	0.5
Junction Capacitance	C_J	pF	$V_R = 0V, f = 1MHz$	-	5

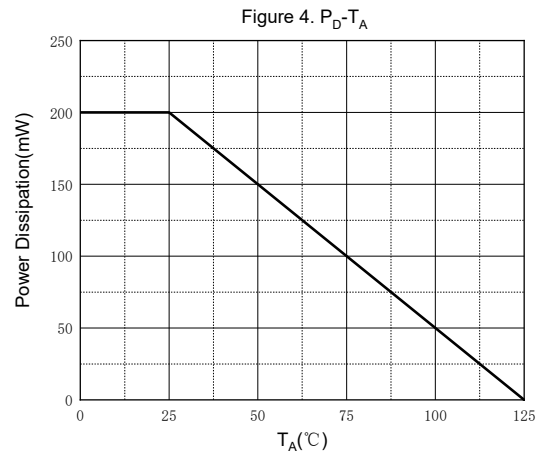
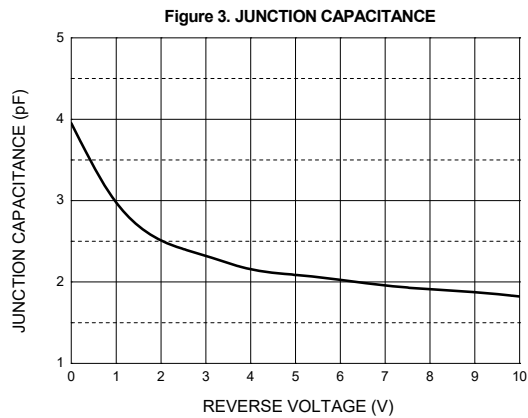
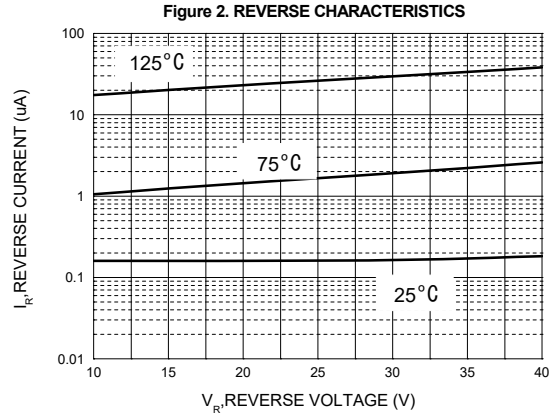
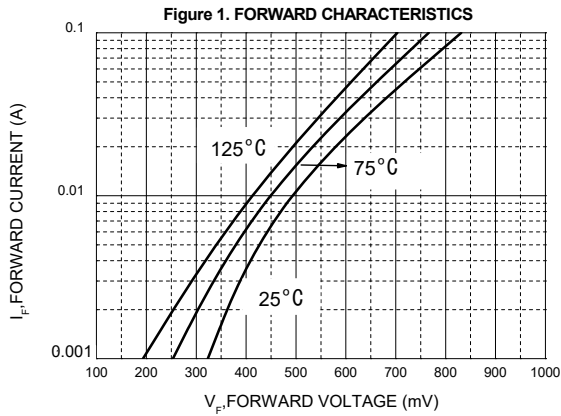


RB751V-40Q

■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB751V-40Q	F2	Approximate 0.0045	3000	30000	120000	7" reel

■ Characteristics(Typical)

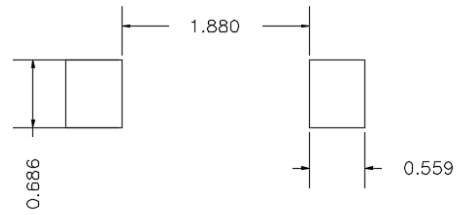
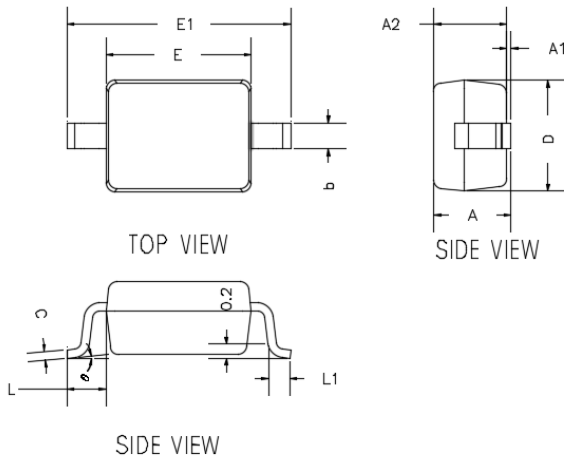




RB751V-40Q

■ Outline Dimensions

SOD-323

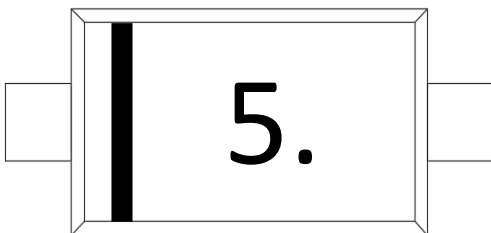


UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
θ	0°	8°	0°	8°

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black



RB751V-40Q

Disclaimer

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